

FIG. 1

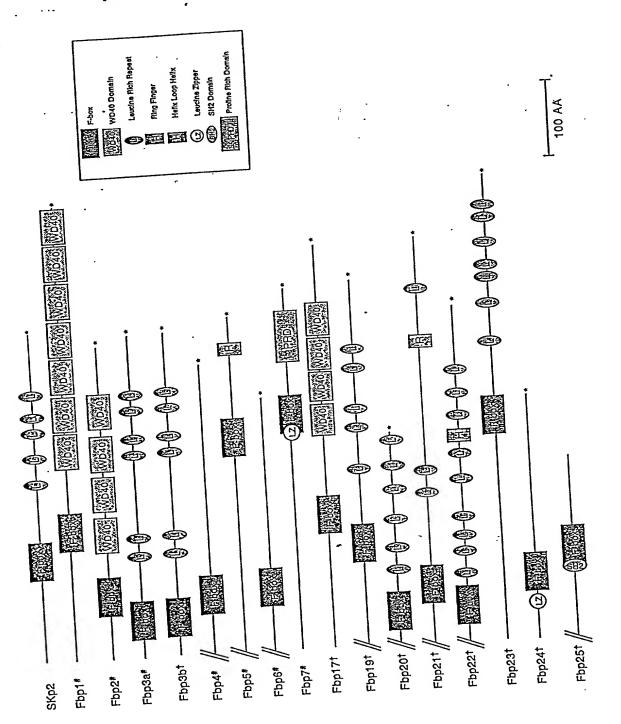


FIG. 2

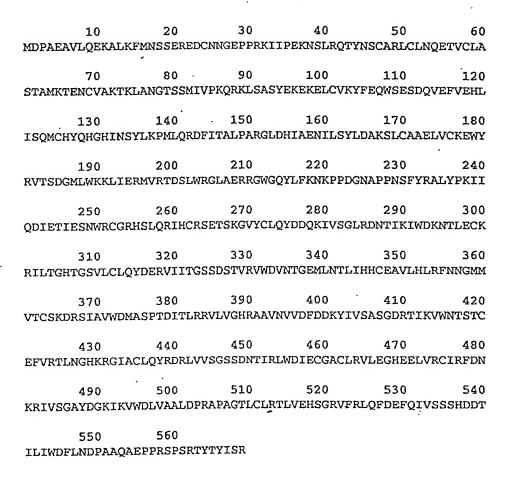


FIG. 3A

5914-0**90** 

## (SHEET 4 OF 80 )

. "	•				•
10 TGCGTTGGCTGCGG				70 CGGCGATTATGGAC	90° 90 CCGGCCGAGGCGGTGCTGC
	10 120 - AAGTTTATGAATTCCTCA				0 180 TACCAGAGAAGAATTCACT
TAGACAGACATACA	ACAGCTGTGCCAGACTCT	GCTTAAACCAAGAAI	ACAGTATGTTTAGC!	agcactgctatgaa	270 280 GACTGAGAATTGTGTGGCC
AAAACAAAACTTGC	300 310 CAATGGCACTTCCAGTAT	GATTGTGCCCAAGC	lacggaaactctcac	Caagctatgaaaag	gaaaaggaactgtgtgtca
AATACTTTGAGCAG	TGGTCAGAGTCAGATCAA	GTGGAATTTGTGGAI	CATCTTATATCCC!	<i>L</i> AATGTGTCATTACC	. 460 470 AACATGGGCACATAAACTC
GTATCTTAAACCTA		TAACTGCTCTGCCA	CTCGGGGATTGGAT	CATATCGCTGAGAA	CATTCTGTCATACCTGGAT
	80 590 TGCTGCTGAACTTGTGTG				0 650 AAGÇ <u>ITA</u> TCGAGAGAATGG
660 670	680 690	700	710 72	20 730	740 750
TCAGGACAGATTCT	CTGTGGAGAGGCCTGGCA	GAACGAAGAGGATG	GGACAGTATTAT	CCAAAAACAAACCTC	CTGACGGGAATGCTCCTCC
760	770 780	790 80	00 810	820	830 840
CAACTCTTTTATA	GAGCACTTTATCCTAAAA	TTATACAAGACATTO	GAGACAATAGAATCT	FAATTGGAGATGTGG	AAGACATAGTTTACAGAGA
850 860	870 8	80 890	900	910 920	930 940
ATTCACTGCCGAAG	TGAAACAAGCAAAGGAGT	TTACTGTTTACAGT	ATGATGATCAGAAA	ATAGTAAGCGGCCTT	CGAGACAACACAATCAAGA
950	960 970	980	990 1000	1010	1020 1030
TCTGGGATAAAAC	ACATTGGAATGCAAGCGA	ATTCTCACAGGCCA	TACAGGTTCAGTCC	CCTGTCTCCAGTATG	ATGAGAGAGTGATCATAAC
1040 10	50 1060	1070 1080	1090	1100 111	0 1120
AGGATCATCGGATT	CCACGGTCAGAGTGTGGG	ATGTAAATACAGGT	GAAATGCTAAACAC	GTTGATTCACCATTG	TGAAGCAGTTCTGCACTTG
1130 1140	1150 1160	1170	1180 119	90 1200	1210 1220
CGTTTCAATAATGG	CATGATGGTGACCTGCTC	CAAAGATCGTTCCA	PTGCTGTATGGGAT	ATGGCCTCCCCAACT	GACATTACCCTCCGGAGGG
1230	1240 1250	1260 12	70 1280	1290 1	300 1310
TGCTGGTCGGACAC	CGAGCTGCTGTCAATGTT	GTAGACTTTGATGA	CAAGTACATTGTTTV	CTGCATCTGGGGATA	GAACTATAAAGGTATGGAA
1320 1330	1340 13	150 1360	1370 ::	1380 1390	1400 1410
CACAAGTACTTGTG		ATGGACACAAACGA	SCCATTGCCTGTTTV	GCAGTACAGGGACAG	GCTGGTAGTGAGTGGCTCA
1420	1430 1440	1450	1460 1470	1480	1490 1500
TCTGACAACACTAT	CAGATTATGGGACATAGA	ANTGTGGTGCATGTT	TACGAGTGTTAGAA	GCCATGAGGAATTG	GTGCGTTGTATTCGATTTG
1510 15	i20 1530	1540 1550	1560	1570 <sup>7</sup> 158	0 · 1590
ATAACAAGAGGATA	AGTCAGTGGGGCCTATGAT	rggaaaaattaaagt	GTGGGATCTTGTGG	CTGCTTTGGACCCCC	GTGCTCCTGCAGGGACACT
1600 1610	1620 1630	) 1640	1650 16	60 1670	1680 1690
CTGTCTACGGACCC	TTGTGGAGCATTCCGGAJ	AGAGTTTTTCGACTA	CAGTTTGATGAATT	CCAGATTGTCAGTAG	TTCACATGATGACACAATC
1700	1710 1720	1730 17	40 1750	1760 1	770 1780
CTCATCTGGGACTT	CCTAAATGATCCAGCTGC		CCCGTTCCCCTTCT	CGAACATACACCTAC	ATCTCCAGATAAATAACCA
1790 1800	) 1810 18	320 1830	1840	1850 1860	1870 1880
TACACTGACCTCAT		PAAAGTTGCGGTATT	TAACGTATCTGCCA	ATACCAGGATGAGCA	ACAACAGTAACAATCAAAC
1890	1900 1910	1920	1930 1940	1950	1960 1970
TACTGCCCAGTTTC	CCTGGACTAGCCGAGGA	SCAGGGCTTTGAGAC	TCCTGTTGGGACAC	AGTTGGTCTGCAGIX	
1020 19	2000	2010 2020	2030	2040 205	
2070 2080	2090 2100	) 2110	2120 21	30 2140	2150
CACCTCTGCACCTA	AGTTTTTTCCCATTGGTT	CCAGACAAAGGTGAC	TTATAAATATATTT	AGTGTTTTGCCAGAJ	.aaaaaaa

FIG. 3B

30 20 40 50 MERKDFETWLDNISVTFLSLTDLQKNETLDHLISLSGAVQLRHLSNNLETLLKRDFLKLL PLELSFYLLKWLDPQTLLTCCLVSKQWNKVISACTEVWQTACKNLGWQIDDSVQDALHWK 150 130 140. 160 . 170 KVYLKAILRMKQLEDHEAFETSSLIGHSARVYALYYKDGLLCTGSDDLSAKLWDVSTGQC 210 220 VYGIQTHTCAAVKFDEQKLVTGSFDNTVACWEWSSGARTQHFRGHTGAVFSVDYNDELDI LVSGSADFTVKVWALSAGTCLNTLTGHTEWVTKVVLQKCKVKSLLHSPGDYILLSADKYE 310 320 330 340 350 360 IKIWPIGREINCKCLKTLSVSEDRSICLQPRLHFDGKYIVCSSALGLYQWDFASYDILRV 390 370 380 IKTPEIANLALLGFGDIFALLFDNRYLYIMDLRTESLISRWPLPEYRESKRGSSFLAGEH PG

FIG. 4A

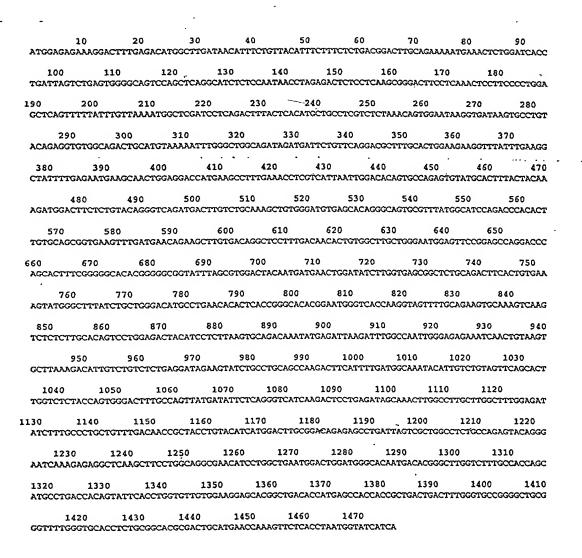


FIG. 4B

\*\* MID \*\*\* \*\* WIT \*\*\* \*\*\* WIT \*\*\*

MKRGGRDSDRNSSEEGTAEKSKKLRTTNEHSQTCDWGNLLQDIILQVFKYLPLLDRAHAS QVCRNWNQVFHMPDLWRCFEFELNQPATSYLKATHPELIKQIIKRHSNHLQYVSFKVDSS KESAEAACDILSQLVNCSLKTLGLISTARPSFMDLPKSHFISALTVVFVNSKSLSSLKID DTPVDDPSLKVLVANNSDTLKLLKMSSCPHVSPAGILCVADQCHGLRELALNYHLLSDEL LLALSSEKHVRLEHLRIDVVSENPGQTHFHTIQKSSWDAFIRHSPKVNLVMYFFLYEEEF DPFFRYEIPATHLYFGRSVSKDVLGRVGMTCPRLVELVVCANGLRPLDEELIRIAERCKN LSAIGLGECEVSCSAFVEFVKMCGGRLSQLSIMEEVLIPDQKYSLEQIHWEVSKHLGRVW FPDMMPTW

FIG. 5A

10 (0) (0)

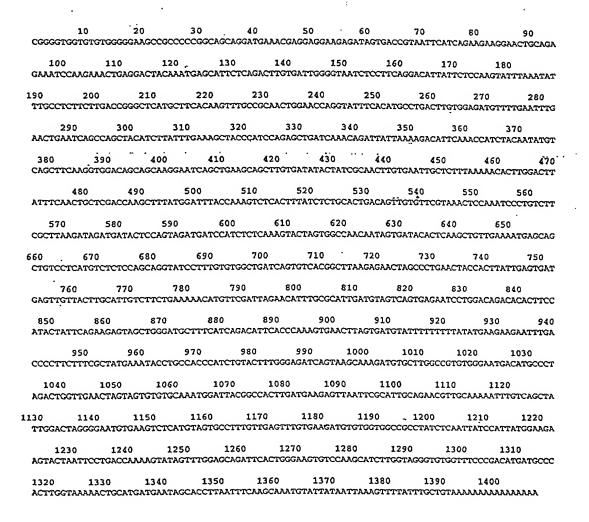


FIG. 5B

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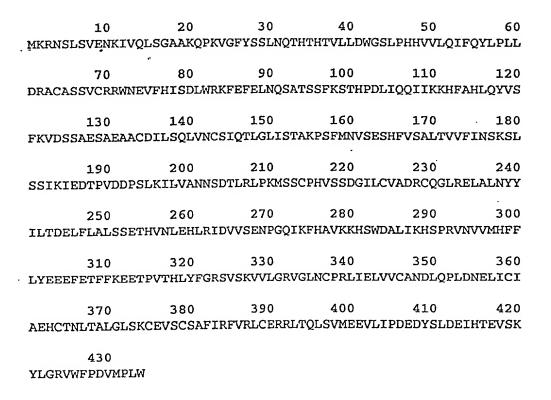


FIG. 6A

**ATGCCTCTCTGG** 

	10	20		40		60
MAGSEPI	RSGTNSPPPP	FSDWGRLEAA	ILSGWKTFV	VQSVSKDRVAR	TTSREEVDEA	ASTLT
	70				110	120
RLPIDV	QLYILSFLSP	HDLCQLGSTN	HYWNETVRI	NPILWRYFLLR	DLPSWSSVDW	KSLPY
•	130	140	150	160	170	180
LQILKK	PISEVSDGAF	FDYMAVYLMC	CPYTRRASI	KSSRPMYGAVT	SFLHSLIIPN	EPRFA
	190	200	210	220	230	240
LFGPRLI	EQLNTSLVLS	LLSSEELCPT	AGLPQRQII	GIGSGVNFQL	NNOHKFNILI	YSTT
					~	
	250	260	270	280	290	300
RKERDRA	AREEHTSAVNI			/IPQIQKLCEV		
	310	320	330	340	350	360
HEWODE	SHIMAMTDPA			VKRMPCFYLAI		
			<b>-</b>			. 11242
	370	380	390	400	410	420
ויים ביים				TETI*NLLLR		
D1111111	JIGI DIGIDI.	L D D V D D I C C L	CIDIQLE	TELL MUDDIC	o CEIDDOQF	LUSCL
	430	440	450	460	470	480
EADDI.CE				FSPKMNL*TF		
ופשומאז	. GQL LLCCELL	LILIUL III.	radio o v D v	- Dridnin Iri	ru entense.	WI.T
т			-			
L						

FIG. 7A

or m

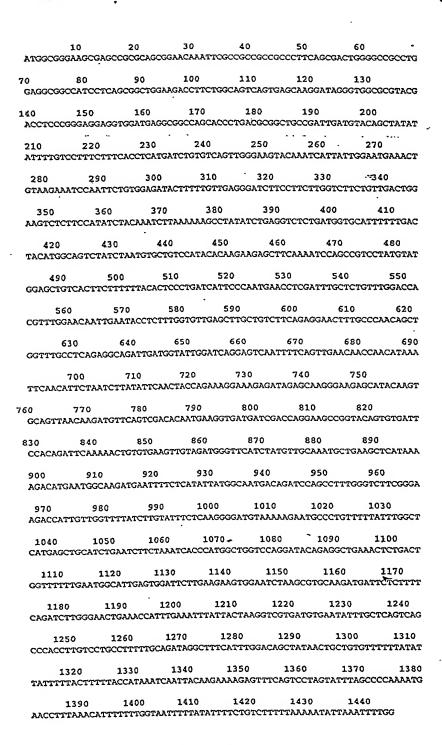


FIG. 7B

MSRRPCSCALRPPRCSCSASPSAVTAAGRPRPSDSCKEESSTLSVKMKCDFNCNHVHSGL KLVKPDDIGRLVSYTPAYLEGSCKDCIKDYERLSCIGSPIVSPRIVQLETESKRLHNKEN QHVQQTLNSTNEIEALETSRLYEDSGYSSFSLQSGLSEHEEGSLLEENFGDSLQSCLLQI QSPDQYPNKNLLPVLHFEKVVCSTLKKNAKRNPKVDREMLKEIIARGNFRLQNIIGRKMG LECVDILSELFRRGLRHVLATILAQLSDMDLINVSKVSTTWKKILEDDKGAFQLYSKAIQ RVTENNNKFSPHASTREYVMFRTPLASVQKSAAQTSLKKDAQTKLSNQGDQKGSTYSRHN .390 EFSEVAKTLKKNESLKACIRCNSPAKYDCYLQRATCKREGCGFDYCTKCLCNYHTTKDCS DGKLLKASCKIGPLPGTKKSKKNLRRL

FIG. 8A

10 AGGTTGCTCAGCTGCCC	20 30	40	50 60 ACCACCTCGGTTGG	70	80	90 CCCTACGG
	120	130 140	150	160 17	0 180	
190 - 200 TTTCTGTCAAAATGAAG	210 . 220	230	240 2:	50 260	270	280
CACCCCTGCATATCTGC		ACTGCATTAAAGAC	TATGAAAGGCTGTC	ATGTATTGGGTCACO	GATTGTGAGCC	
GTACAACTTGAAACTGA		TAACAAGGAAAATC	AACATGTGCAACAG.	ACACTTAATAGTAC	laatgaaataga	470 AGCACTAG
AGACCAGTAGACTTTAT		TOCTCATTITCTCT	ACAAAGTGGCCTCA	GTGAACATGAAGAA(	GTAGCCTCCTG	
570 580 TTTCGGTGACAGTCTAC	590 CAATCCTGCCTGCTAC	600 610 AAATACAAAGCCCA	620 GACCAATATCCCAA	630 64 CAAAAACTTGCTGC	10 650 CAGTTCTTCATT	TTGAAAAA
660 670 GTGGTTTGTTCAACAT	680 690 AAADDTAADAAAAAA	700 ACGAAATCCTAAAG	710 7 TAGATCGGGAGATG	20 <b>73</b> 0 CTGAAGGAAATTAT	740 AGCCAGAGGAAA	750 TTTTAGAC
760 7° TGCAGAATATAATTGG	70 780 CAGAAAAATGGGCCTA	790 8 GAATGTGTAGATAT	00 810 TCTCAGCGAACTCT	820 TTCGAAGGGGACTC		40 GCAACTAT
850 860 TTTAGCACAACTCAGT	870 8 GACATGGACTTAATCA	80 890 ATGTGTCTAAAGTG	900 AGCACAACTTGGAA	910 920 GAAGATCCTAGAAG.	930 ATGATAAGGGGG	940 CATTCCAG
950 TTGTACAGTAAAGCAA	960 970 TACAAAGAGTTACCGA	980 Aaacaacaataaat	990 1000 TTTCACCTCATGCT	1010 TCAACCAGAGAATA	1020 IGTTATGTTCAC	1030 BAACCCCAC
1040 1050 TGGCTTCTGTTCAGAA	1060 ATCAGCAGCCCAGACT	1070 1080 TCTCTCAAAAAAGA	1090 ATGCTCAAACCAAGT	1100 11 TATCCAATCAAGGT	10 1120 GATCAGAAAGGI	TCTACTTA
1130 1140 TAGTCGACACAATGAA	1150 1160 TTCTCTGAGGTTGCCA	1170 AGACATTGAAAAA	1180 11 GAACGAAAGCCTCAA	90 1200 AGCCTGTATTCGCT	1210 GTAATTCACCTC	1220 CAAAATAT
GATTGCTATTTACAAC		agaaggctgtggat	rttgattattgtacc	CAAGTGTCTCTGTAA	TTATCATACTAC	TAAAGACT
1320 1330 GTTCAGATGGCAAGCT	CCTCAAAGCCAGTTGT	PAAAATAGGTCCCC	rgcctggtacaaaga	IAAAGCAAAAAGAAT	TTACGAAGATT	FIGRICICI
1420 TATTAAATCAATTGTT	1430 1440 ACTGATCATGAATGTT	1450 TAGTTAGAAAATGT	1460 1470 PAGGTTTEAACTTA	) 1480 AAAAAATTGTATTG	1490 TGATTTTCAAT	1500 PTTATGTTG
AAATCGGTGTAGTATC		CCCAGAAGATAAA	GAGGATAGACAACCI		ACAATTTAATG	AGAAAAAGT
1600 1610 TTAAAATTCTCAATAC	1620 1630 AAATCAAACAATTTA	1640 AATATTTTAAGAAA	1650 16 AAAGGAAAAGTAGAT	560 1670 PAGTGATACTGAGGG	1680 Tarararara	1690 PTGATTCAA
TTTTATGGTAAAGGAA		CTAGACAGTCTTA	AATATGTCTGGTTT.	ICCATCTGTTAGCAT	TICAGACATTI	
1790 1800 CTTACTCAATTGATAC	CAACAGAAATATCAA	CTTCTGGAGTCTAT	TAAATGTGTTGTCAG	COMMONAAGOM	MITTCATIGIG	IGIATTICC
1890 CAAGAAAGTATCCTTT	1900 1910 GTAAAAACTTGCTTG	1920 PTTTCCTTATTTCT	1930 1940 GAAATCTGTTTTAA	0 1950 FATTTTTGTATACAT	1960 GTAAATATTIC	1970 TGTATTTTT
1980 1990 TATATGTCAAAGAATA	) 2000 ATGTCTCTTGTATGTA	2010 202 CATATAAAAATAAA	0 2030 TTTTGCTCAATAAA		)50 206 \AAAAAAAAAAAAA	
2070 ACTAGTGC		FIG	. 8B			

	10	20	30 ,	40	50	60
ARSGAS	ALRRRRVQVW	/LSRPPPGGGI	OSFRTRRPQRO	SPGPGGSQAMI	DAPHSKAALDS	INE
	70	80	90	100	110	120
LPDNIL	LELFTHVPAR(	QLLLNCRLVC:	SLWRDLIDLL	TLWKRKCLRKO	GFITKDWDQPV	'ADW
	130 .	140	150	160 .	170	180
KIFYFLI	RSLHRNLLRNI	PCAENDMFAW(	QIDFNGGDRWI	CVDSLPGAHGT	PEFPDPKVKKS	FVT
	190	200	210	220	230	240
SYELCLI	KWELVDLLADI	RYWEELLDTFI	RPDIVVKDWF#	\ARADCGCTY(	QLKVQLASADY	FVL
	250	260	270	280	290	300
ASFEPPI	CAMMAQQITV	rwtevsytfsi	YPRGVRYILE	PQHGGRDTQYV	VAGWYGPRVTN	SSI
	310	320	330			
VVSPKM	rnqasseaqi	PGQKHGQEEA <i>I</i>	AQSPYGAVVQI	F	•	

FIG. 9A

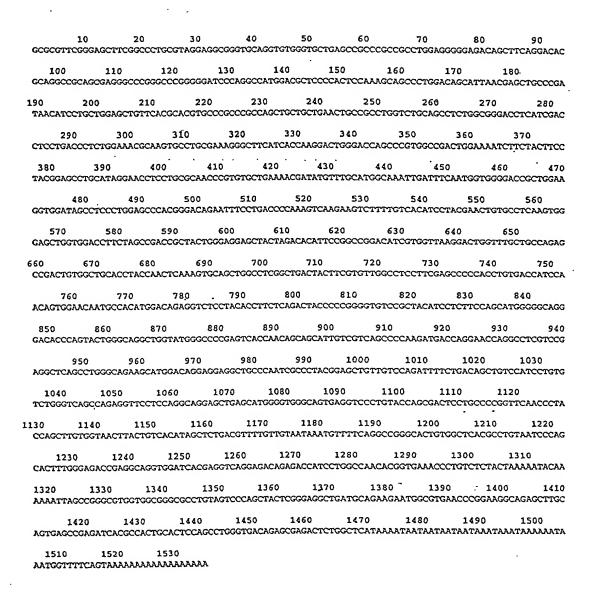
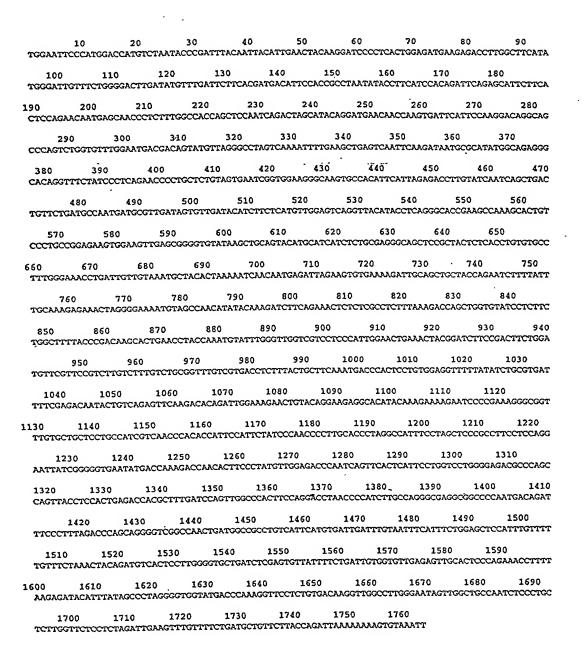


FIG. 9B

MSNTRFTITLNYKDPLTGDEETLASYGIVSGDLICLILHDDIPPPNIPSSTDSEHSSLQN NEQPSLATSSNQTSIQDEQPSDSFQGQAAQSGVWNDDSMLGPSQNFEAESIQDNAHMAEG TGFYPSEPLLCSESVEGQVPHSLETLYQSADCSDANDALIVLIHLLMLESGYIPQGTEAK ALSLPEKWKLSGVYKLQYMHHLCEGSSATLTCVPLGNLIVVNATLKINNEIRSVKRLQLL PESFICKEKLGENVANIYKDLQKLSRLFKDQLVYPLLAFTRQALNLPNVFGLVVLPLELK LRIFRLLDVRSVLSLSAVCRDLFTASNDPLLWRFLYLRDFRDNTVRVQDTDWKELYRKRH IQRKESPKGRFVLLLPSSTHTIPFYPNPLHPRPFPSSRLPPGIIGGEYDQRPTLPYVGDP ISSLIPGPGETPSQLPPLRPRFDPVGPLPGPNPILPGRGGPNDRFPFRPSRGRPTDGRLS FM

**FIG. 10A** 



**FIG. 10B** 

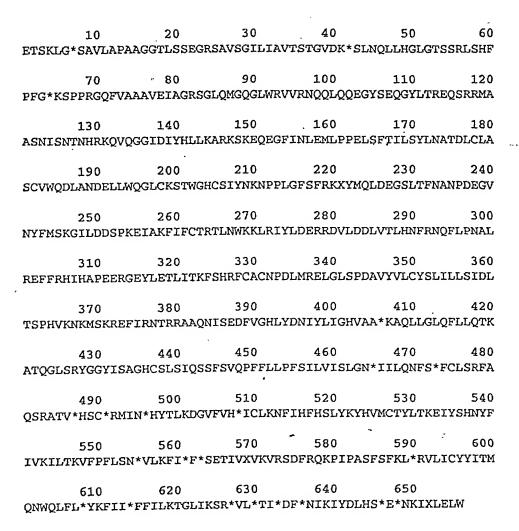


FIG. 11A

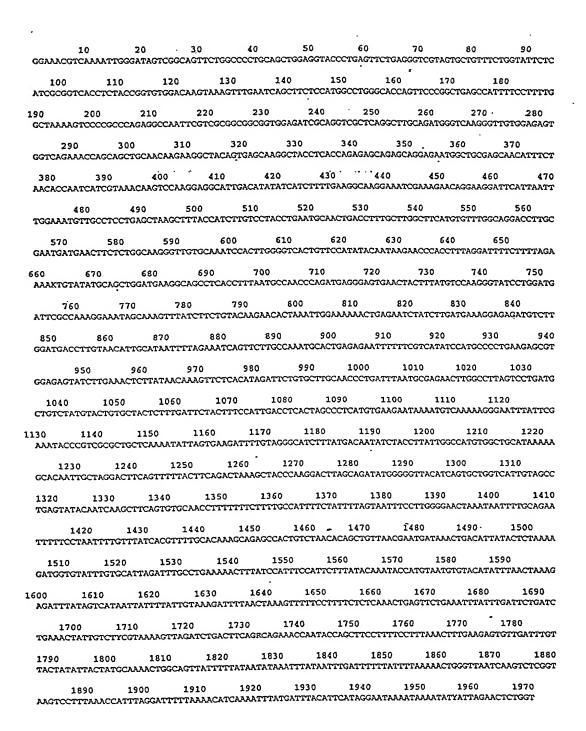
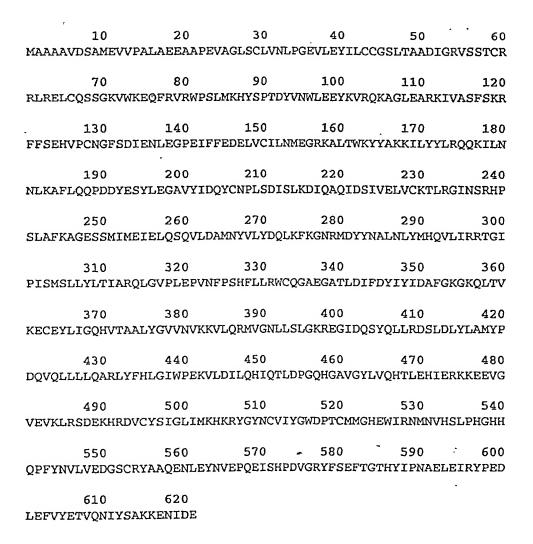


FIG. 11B



**FIG. 12A** 

	10	20	30	40	50	€0	70	<b>#</b> 0	90	100	110	120	130
			CGATOGAOGT 170	180 xizaccòcca	190	200	210	220	230	240			OTOCTOCOCCTCG
140 CTGA	250 COCCCCCCAC	ATCOCCCCTCT									250 CCTTCCCTTAT	260 TANACACTAC	270 AGCCCCACCGACT
280 ACCT	290 CAATTOOTTOO	JOO KASTATANA	310 CTTCCCCXXX	320 UKCTOCCTT	330 16436666666	340 Aagattotao	350 CCTCGTTCTC	360 Wasasstts	370 °.	380 ACCTTCCTT	390 STAATOSCTTC	400 ASTGACATTO	410 AGAACCTTGAAGG
420	430	440	450	460	470	480	490	500	510	520	. 530	540	550 TCTTAAGGCCTTT
560	570	580	590	600	610	620	630	640	650	€60	670	680	690
CTTC	ACCACCCAGA!				ATATTGACCA 750	GTACTOCAAT 760	770	ACATCAOCCT 780	790				OTTTOCALLACCE
70 7100	0 710 000CATAAAC	.crocckocco	730 ACCTTOCCCT					CYCYCCYC	CTOCTOCATO	EGO ECCATGUACT.	#10 ATGTCCTTTAC	#20 TOACCAACTGA	YCLLCYYCCCYY 830
	40 85 ATOGATTACTA			880 CATCACCTT	890 ACCOTTAGE			· \$20 ATGTCTCTCC	DEE DADITIATOI				970 SCCTGTCAACTTC
	980 1	90 100	d 101	102									0 1110 ATCCCCCACCACC
	1120 1	.130 11	40 11	50 11	60 11	70 11	a0 11:	0 12	00 12	10 1:	220 12	30 124	40 1250
TGAC													ATCTCTATCTOCC
ALTO	1260 TACCCCCACC	1270 · 1	280 1 TOCTOCTOCA										380 1390 CCCCTCCCCTAC
стос	1400 TOCKOCKCKCT									1490 TACTOCATO			1520 AGGTATGCCTATA
1530	1540	1550	1560	1570	1580	1590	1600 TOCACAGOCT	1614 20000A0000	1620 CACCACCAG	1630 XXXXXX	1640	1650	1660.
1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790	1800
				1850		1870	TTTCTCAGAG 1860	1890	1900	200000000000000000000000000000000000000	AGAGCTOGAGA 1920	.TCC007ATCC 1930	AGAAGATCTOGAG 1940
1810	1820 TCTATGAAACC	1830 OTOCAGAATA1	1840 Tiacagtoca	Werneyer 1820	1860 ACATAGATGA							CTCCCCAAGA	ACACCTCTCCACC
1950 GAGG	1960	1970	1980 	1990 Caccactact	2000 0CT0GTT0CC	2010 TCCTACTAAG	2020 TTTAXATACC	2030 2030	2040 CCCCACCTCC	2050 XXXQXCXXX	2960 3710C1C1CCC	2070 CCTACACTAG	2080 IGAATTAATCTGA
209	0 2100	2110	2120	2130	2140	2150	2160	2170	2180	2190		2210	2220 ICTGICTOCATTE
22	20 22	10 7250	2260	2270	2280	2290	2300	2310	2320	233	2340	2350	2360
													CATATTCAGACG
· TALL	CTTGTGTGCT	180 239 ATCTTOSCASCI	TCTTAGAGAT	OCACACATTA OCACACATTA		OCTANTIACA	ATCATTTCAA	TTATTTTT	TCTAATATG	concre	ATTICALGIGI	TITATCTTTT	TTTTTAAATTTA
AATO	2510 :: ***********************************	1520 25 ICAGTTTTCCCT	TOCATATTOC	to 25	50 25 TTATOCACAT		CATTAGTTT				610 26 NATOCAAATAG	TCAACTTICTO	30 2640 GAATOGATTTTTC
CLT	2650	2660 7	670 2	680 2									770 2760 CTGATGTTAATGT
	2790	2400	2410	2820	2830	2840	2850 :	2660	2870	2880	2890	2900 :	2910
	2930	2940	2950	2960	1970	2980	2990	3000 3000	3010	_ 3020	3030	3040	3050
2920 CTTC	TTATTCCTTA	TATO	OCCUCITIC 2330	AATGTOOCAG	CTTAGAAAGA	CACACAATGT	CTTTCATTTG,	YCYCLCLLC		EXXXOCXCXT	CTCCCTCTTCC	MICTOCITY	recyvecesecya
3060	3070 CTGACCOCAC	3080 2000,000	3090 -1011010000	3100 TCTTCTOXXX	3110 AAGCCTGACC	3120	3130 MODOCACTOS	3140 	3150 AAGTTCTCAC	3160 Tarctgroc	3170 CCAGAGTAACT	3180 7000007777	3190 STOCKSCTCTOCK
3200	3210 CACCAACTCT	3220 20000000000	3230 TTCTCAA00GA	' 3240 OCTAATCTTG	3250 TCATTAATCO	3260 WTAGAAGCTA	3270 ACTICCGAAG	3260 TTAGGACCTA	3290 GTTACTTTCA	2300 TCTCAACAT	3310 TTAAAATAA	3320 XXXIIIXXIIIX	3330 AGTGAATOOOGG
3346		1750	2270	3180	3390	3400	3410	3420	3430	3440	3450	3460	3470 CACTICATAGCAA
			1610	3520	3530	3540	3550	3560	3570	3580	3590	3600	3610
000	UCCTTIAC	CAGTTACTAGA	UGAGATOOOG	•				3700					OCTOCATOTOGAA 3750
ACG1	120 36. PARCENETERS	BO J640 NOCACCTOSCCC	3650	3660 CACCATTCT	3670 ACACTACTT	3660 CATTTAA	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ATAATACOCA	AATTAATTA	TATGAATGAG	ATOCATTAATA	ACTACCECTOR	CYLOCICYCYCLL CYLOCICYCYCLL 3120
0CN	1760 3'	170 378	IO 379	OSE O	0 381 ACATCALAGE	.0 382 CLAGALAGAT	OCTITIACCI	0 384 TTACTGACCC	0 385 ACCTOTACA	IO 36 PATOTATOTA	60 387 GACTOTTTT		0 3890 TTCATGAATGCTT
	2000	1010 10	20 39	10 19	40 39	50 39	60 39	70 39	80 39	90 4	000 40	10 40	
				070 4	080 4	090	1100 4	110 4	120	1130	4140 4	1150 4	160
TITE	WWW.	TATAAACGTT	AACTITCACA	ATCTTAAAAT	TATAAATTD	TOCATATACO	WCLLCLLL	CTCTTCALA	CHICCON	CHITTITIC	TACAATGATTA	Y1YY100YY	CTTATCCAGAG

FIG. 12B

10 20 30 40 50 60 RSTGFRRAGEEWSR\*XLAASPGXLRRPAXTFVLSNLAEVVERVLTFLPAKALLRVACVCR

70 80 90 LWRECVRRVLRTHRSVTWISAGLAEAGHLXGH

FIG. 13A

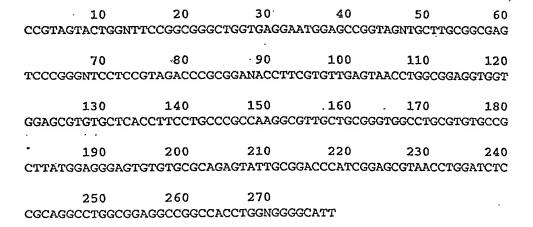


FIG. 13B

**FIG. 14A** 

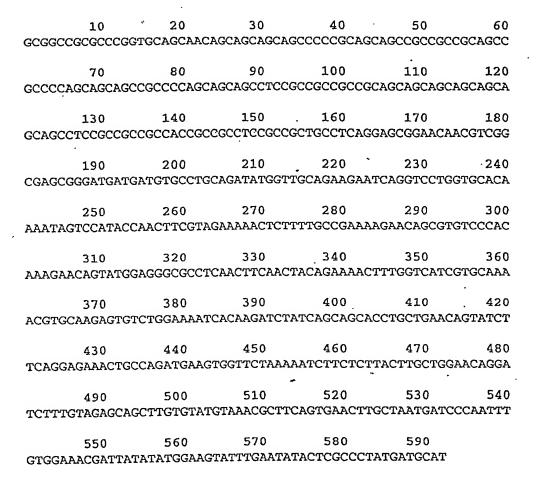


FIG. 14B

myggg '

10 100 110 WRQLCLGCTECRHPNWPNQPDVEPESWREAFKQHYLASKTWTKNALDLESSICFSLFRRR 150  ${\tt RERRTLSVGPGREFDSLGSALAMASLYDRIVLFPGVYEEQGEIILKVPVEIVGQGKLG}$ 

**FIG. 15A** 

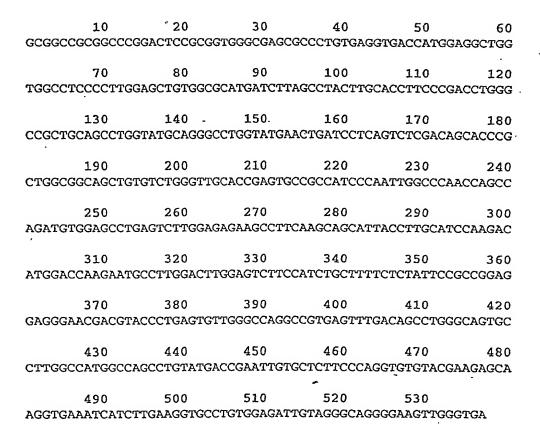
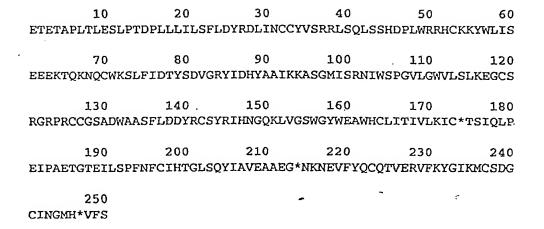


FIG. 15B



**FIG. 16A** 

11

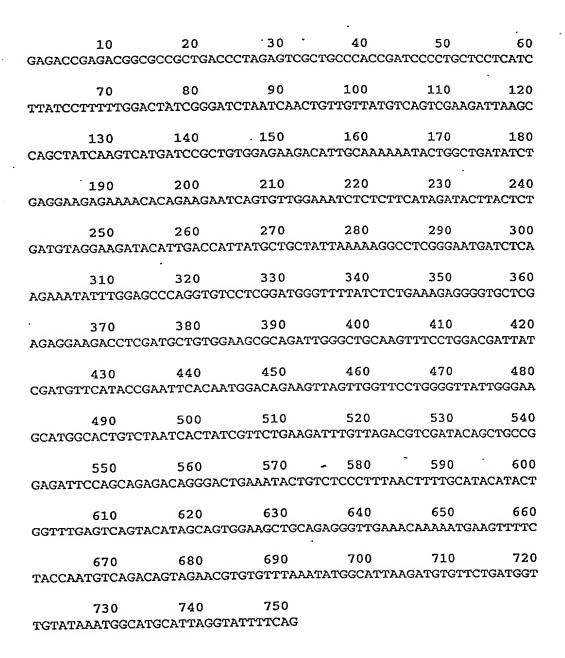


FIG. 16B

efficie National met

GSGFRAGGWPLTMPGKHQHFQEPEVGCCGKYFLFGFNIVFWVLGALFLAIGLWAWGEKGV

70 80 90 100 110 120
LSNISALTDLGGLDPVWLVCGSWRRHVGAGLCWAAIGALRENTFLLKFFXXFLGLIFFLE
LA

FIG. 17A

GGCTCCGGTTTCCGGGCCGGCGGGGGCGCCTCACCATGCCCGGNAAGCACCAGCATTTC CAGGAACCTGAGGTCGGCTGCTGCGGAAATACTTCCTGTTTGGCTTCAACATTGTCTTC 140 -TGGGTGCTGGGAGCCCTGTTCCTGGCTATCGGCCTCTGGGCCTGGGGTGAGAAGGGCGTT **GGTAGTTGGAGGCGTCATGTCGGTGCTGGGCTTTGCTGGGCTGCAATTGGGGCCCTCCGG** GAGAACACCTTCCTGCTCAAGTTTTTCTNCGNGTTCCTCGGTCTCATCTTCTTCCTGGAG CTGGCAAC

FIG. 17B

30 40 20 50 60 10 AAAAAYLDELPEPLLLRVLAALPAAELVQACRLVCLRWKELVDGAPLWLLKCQQEGLVP EGGVEEERDHWQQFYFLSKRRRNLLRNPCGEEDLEGWCDVEHGGDGWRVEELPGDSGVEF 140 . THDESVKKYFASSFEWCRKAQVIDLQAEGYWEELLDTTQPAIVVKDWYSGRSDAGCLYEL 220 200 210 230 240 190 ŢVKLLSEHENVLAEFSSGQVAVPQDSDGGGWMEISHTFTDYGPGVRFVRFEHGGQGSVYW 250 KGWFGARVTNSSVWVEP\*

**FIG. 18A** 

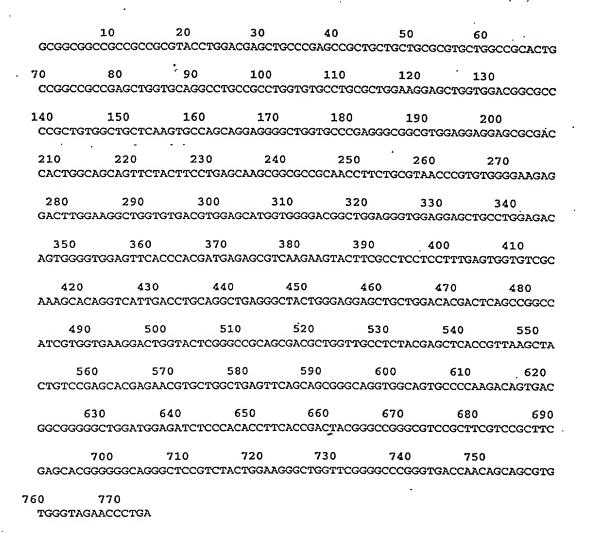


FIG. 18B

MGEKAVPLLRRRRVKRSCPSCGSELGVEEKRGKGNPISIQLFPPELVEHIISFLPVRDLV ALGQTCRYFHEVCDGEGVWRRICRRLSPRLQDQDTKGLYFQAFGGRRRCLSKSVAPLLAH GYRRFLPTKDHVFILDYVGTLFFLKNALVSTLGQMQWKRACRYVVLCRGAKDFASDPRCD TVYRKYLYVLATREPQEVVGTTSSRACDCVEVYLQSSGQRVFKMTFHHSMTFKQIVLVGQ  ${\tt ETQRALLLLTEEGKIYSLVVNETQLDQPRSYTVQLALRKVSHYLPHLRVACMTSNQSSTL}$ YVTDPILCSWLQPPWPGG

FIG. 19A

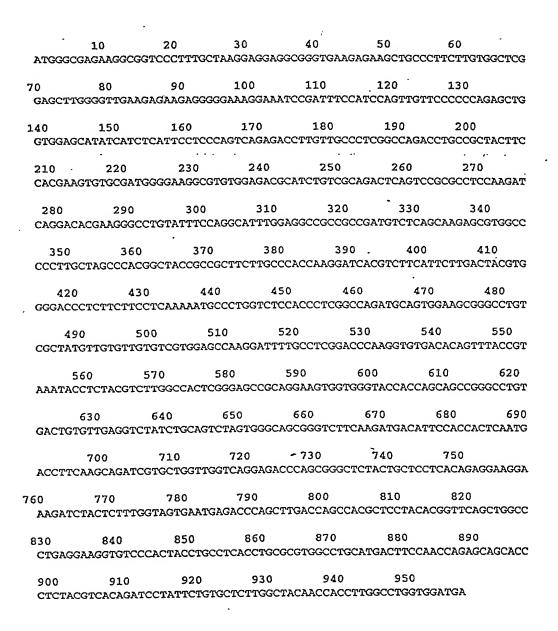
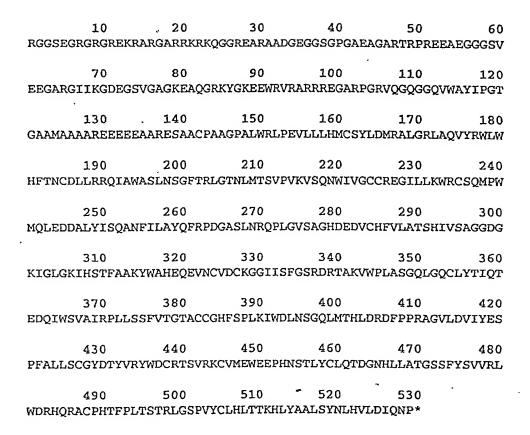
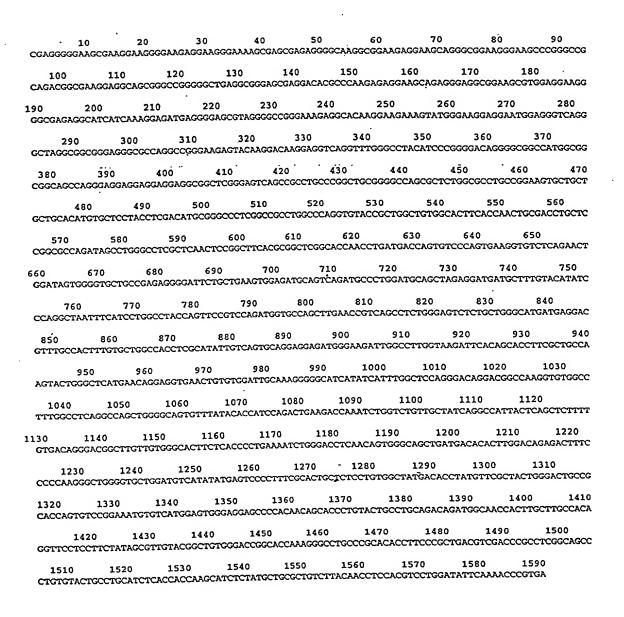


FIG. 19B



**FIG. 20A** 



**FIG. 20B** 

10 20 30 40 50 60

LILTSVLLFQRHGYCTLGEAFNRLDFSSAIQDIRTFNYVVKLLQLIAKSQLTSLSGVAQK

70 80 90 100 110 120

NYFNILDKIVQKVLDDHHNPRLIKDLLQDLSSTLCILIRGVGKSVLVGNINIWICRLETI

130 140 150 160 170 180

LAWQQQLQDLQMTKQVNNGLTLSDLPLHMLNNILYRFSDGWDIITLGQVTPTLYMLSEDR

190 200 210 220 230 240

QLWKKLCQYHFAEKQFCRHLILSEKGHIEWKLMYFALQKHYPAKEQYGDTLHFCRHCSIL

250 260 270

FWKDSGHPCTAADPDSCFTPVSPQHFIDLFKF

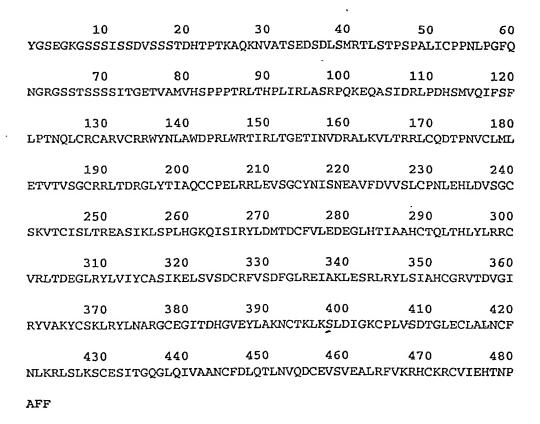
**FIG. 21A** 

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# (SHEET 40 OF 80)

	10	20	30	40	50	60
GCATTG	CTATAATTT	TACTATACTC	CATCTAAATO	TAAAATCAGI	CTTCAAAAT	AAAAACAAATTGTC
70	80	· .90	100	110	120	130
			CAATTAATT	GACATTAACTG	CCAATTCTT	TTTGGCTAATTGAC
	450	1.50	170	100	100	200
	150 TAACTTCTG	160 IGTTGÇTTTT(	170 CCAGAGGCATO	180 GCTATTGCAC 	190 CTTGGGAGA	200 AGCCTTTAATCGGT
210	220	230	240	250	260	270
TAGACT	TCTCAAGTG	CAATTCAAGAT	PATCCGAACG1	TCAATTATGI	GGTCAAACT	GTTGCAGCTAATTG
280 CAAAAȚ	290 CCCAGTTAA	° 300 CTTCATTGAG	310 rggcgtggca	320 CAGAAGAATTA	330 TADAADTTD	340 TTTGGATAAATCG
350	360	370	380	390	400	410
TTCAAA		ATGACCACCAC	CAATCCTCGC	TAATCAAAG1	ATCTTCTGCA	AGACCTAAGCTCTA
400	) 43	0 440	) 450	) 460	) 47	0 480
420 CCCTCT						TATTTGGATTTGCC
49				20 53		40 550
GATTAG	SAAACTATTC	TCGCCTGGCA	ACAACAGCTA(	CAGGATCTTC	GATGACTAA	GCAAGTGAACAATG
c	560	570	580 5	590 <i>6</i>	500	610 620
			GCACATGCTG	AACAACATCCI	TATACCGGTT	CTCAGACGGATGGG
	630	640	650	660	670	680 690
ACATC						ACAGCTGTGGAAGA
			000	720	740	350
<b>እ</b> ርረጥጥባ	700	710	720 AAAGCAGTTT	730 IGTAGACATTI	740 GATCCTTTC	750 AGAAAAAGGTCATA
AGCTTT						750 AGAAAAAGGTCATA
760	TGTCAGTACC	ATTTTGCTGA	AAAGCAGTTT 790	rgtagacatti 800	RGATCCTTTC 810	AGAAAAAGGTCATA 820
760	TGTCAGTACC	ATTTTGCTGA	AAAGCAGTTT 790	rgtagacatti 800	RGATCCTTTC 810	AGAAAAAGGTCATA
760 TTGAAT	TGTCAGTACC 770 TGGAAGTTGA 840	ATTTTGCTGA 780 TGTACTTTGC 850	AAAGCAGTTT 790 ACTTCAGAAA 860	TGTAGACATTI  800 CATTACCCAGO  870	RGATCCTTTC 810 CGAAGGAGCA 880	AGAAAAAGGTCATA 820 GTACGGAGACACAC 890
760 TTGAAT	TGTCAGTACC 770 TGGAAGTTGA 840	ATTTTGCTGA 780 TGTACTTTGC 850	AAAGCAGTTT 790 ACTTCAGAAA 860	TGTAGACATTI  800 CATTACCCAGO  870	RGATCCTTTC 810 CGAAGGAGCA 880	AGAAAAAGGTCATA 820 GTACGGAGACACAC
760 TTGAAT 830 TGCATT	TGTCAGTACC 770 TGGAAGTTGA 840 TTCTGTCGGC	780 TGTACTTTGC. 850 ACTGCAGCAT	AAAGCAGTTT 790 ACTTCAGAAA 860	TGTAGACATTI  800 CATTACCCAGO  870	RGATCCTTTC 810 CGAAGGAGCA 880	AGAAAAAGGTCATA 820 GTACGGAGACACAC 890
760 TTGAAT 830 TGCATT	TGTCAGTACC 770 TGGAAGTTGA 840 TTCTGTCGGC	780 TGTACTTTGC. 850 ACTGCAGCAT	AAAGCAGTTT 790 ACTTCAGAAA 860 TCTCTTTGG. 930	800 CATTACCCAGO 870 AAGGACTCAGO	REATCCTTTC  810  CGAAGGAGCA  880  EACAÇCCCTG	820 GTACGGAGACACAC 890 CACGGCGGCCGACC
760 TTGAAT 830 TGCATT 900 CTGACI	TGTCAGTACC 770 TGGAAGTTGA 840 TTCTGTCGGC 910 AGCTGCTTCA	780 TGTACTTTGC. 850 ACTGCAGCAT 920 CGCCTGTGTC	790 ACTTCAGAAA  860 TCTCTTTTGG.  930 TCCGCAGCAC	800 CATTACCCAGO 870 AAGGACTCAGO 940 TTCATCGACCT	810 CGAAGGAGCA 880 GACAÇCCCTG 950 FCTTCAAGTT	820 GTACGGAGACACAC 890 CACGGCGGCCGACC 960 TTAAGGGCTGCCCC
760 TTGAAT 830 TGCATT 900 CTGAC	TGTCAGTACC 770 TGGAAGTTGA 840 TTCTGTCGGC 910 AGCTGCTTCA	780 TGTACTTTGC. 850 ACTGCAGCAT 920 CGCCTGTGTC	790 ACTTCAGAAA  860 TCTCTTTTGG.  930 TCCGCAGCAC	800 CATTACCCAGO 870 AAGGACTCAGO 940 TTCATCGACCT	810 CGAAGGAGCA 880 GACAÇCCCTG 950 FCTTCAAGTT	820 GTACGGAGACACAC 890 CACGGCGGCCGACC 960 TTAAGGGCTGCCCC
760 TTGAAT 830 TGCATT 900 CTGACI	TGTCAGTACC 770 TGGAAGTTGA 840 TTCTGTCGGC 910 AGCTGCTTCA	780 TGTACTTTGC. 850 ACTGCAGCAT 920 CGCCTGTGTC	790 ACTTCAGAAA  860 TCTCTTTTGG  930 TCCGCAGCAC  1000 TCCTGCTGTC	800 CATTACCCAGO 870 AAGGACTCAGO 940 TTCATCGACCT	810 CGAAGGAGCA 880 GACAÇCCCTG 950 FCTTCAAGTT	820 GTACGGAGACACAC 890 CACGGCGGCCGACC 960 TTAAGGGCTGCCCC
760 TTGAAT 830 TGCATT 900 CTGACT 970 TGCCAT	TGTCAGTACC 770 TGGAAGTTGA 840 TTCTGTCGGC 910 AGCTGCTTCA 980 TCCCTATTGG	780 TGTACTTTGC. 850 ACTGCAGCAT 920 CGCCTGTGTC 990 AGATTGTGAA	790 ACTTCAGAAA  860 TCTCTTTTGG  930 TCCGCAGCAC  1000 TCCTGCTGTC	800 CATTACCCAGO 870 AAGGACTCAGO 940 TTCATCGACCT 1010 TGTGCAGGGCT	REATCETTEC  810  CGAAGGAGCA  880  GACAÇCCCTG  950  FCTTCAAGTT  1020  FCATAGTGAG	820 GTACGGAGACACAC 890 CACGGCGGCCGACC 960 TTAAGGGCTGCCCC 1030 TGTTCTGTGAGGTG
760 TTGAAT 830 TGCATT 900 CTGACT 970 TGCCAT	TGTCAGTACC 770 TGGAAGTTGA 840 TTCTGTCGGC 910 AGCTGCTTCA 980 TCCCTATTGG	780 TGTACTTTGC. 850 ACTGCAGCAT 920 CGCCTGTGTC 990 AGATTGTGAA	790 ACTTCAGAAA  860 TCTCTTTTGG  930 TCCGCAGCAC  1000 TCCTGCTGTC	800 CATTACCCAGO 870 AAGGACTCAGO 940 TTCATCGACCT 1010 TGTGCAGGGCT	REATCETTEC  810  CGAAGGAGCA  880  GACAÇCCCTG  950  FCTTCAAGTT  1020  FCATAGTGAG	820 GTACGGAGACACAC 890 CACGGCGGCCGACC 960 TTAAGGGCTGCCCC
760 TTGAAT 830 TGCATT 900 CTGACT 970 TGCCAT	TGTCAGTACC 770 TGGAAGTTGA 840 TTCTGTCGGC 910 AGCTGCTTCA 980 TCCCTATTGG 1050 AGACTCCTCG	780 TGTACTTTGC. 850 ACTGCAGCAT 920 CGCCTGTGTC 990 AGATTGTGAA 1060 GAAGCCCCTG	790 ACTTCAGAAA  860 TCTCTTTTGG.  930 TCCGCAGCAC  1000 TCCTGCTGTC  1070 CTTCCAGAAA	800 CATTACCCAGO 870 AAGGACTCAGO 940 TTCATCGACCT 1010 TGTGCAGGGCT 1080 GCCTGGGAAG	810 CGAAGGAGCA  880 GACACCCCTG  1020 CCATAGTGAG  1090 AACTGCCCTT	820 GTACGGAGACACAC  890 CACGGCGGCCGACC  960 TTAAGGGCTGCCCC  1030 GTGTTCTGTGAGGTG  1100 CTGCAAAGGGGGGA
760 TTGAAT 830 TGCATT 900 CTGACT 970 TGCCAT	TGTCAGTACC 770 TGGAAGTTGA 840 TTCTGTCGGC 910 AGCTGCTTCA 980 TCCCTATTGG 1050 AGACTCCTCG	780 TGTACTTTGC. 850 ACTGCAGCAT 920 CGCCTGTGTC 990 AGATTGTGAA 1060 GAAGCCCCTG	790 ACTTCAGAAA  860 TCTCTTTTGG.  930 TCCGCAGCAC  1000 TCCTGCTGTC  1070 CTTCCAGAAA	800 CATTACCCAGO 870 AAGGACTCAGO 940 TTCATCGACCT 1010 TGTGCAGGGCT 1080 GCCTGGGAAG	810 CGAAGGAGCA  880 GACACCCCTG  1020 CCATAGTGAG  1090 AACTGCCCTT	820 GTACGGAGACACAC 890 CACGGCGGCCGACC 960 TTAAGGGCTGCCCC 1030 TGTTCTGTGAGGTG
760 TTGAAT 830 TGCATT 900 CTGACA 970 TGCCAT	770 76GAAGTTGA 840 TTCTGTCGGC 910 AGCTGCTTCA 980 TCCCTATTGG AGACTCCTCG	780 TGTACTTTGC. 850 ACTGCAGCAT 920 CGCCTGTGTC AGATTGTGAA CGAAGCCCCTG	790 ACTTCAGAAA  860 TCTCTTTTGG.  930 TCCGCAGCAC  1000 TCCTGCTGTC  1070 CTTCCAGAAA	800 CATTACCCAGO 870 AAGGACTCAGO 940 TTCATCGACCT 1010 TGTGCAGGGCT 1080 GCCTGGGAAGG	810 CGAAGGAGCA  880 GACACCCCTG  1020 CCATAGTGAG  1090 AACTGCCCTT	820 GTACGGAGACACAC  890 CACGGCGGCCGACC  960 TTAAGGGCTGCCCC  1030 GTGTTCTGTGAGGTG  1100 CTGCAAAGGGGGGA

FIG. 21B



**FIG. 22A** 

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## (SHEET 42 OF 🍪 )

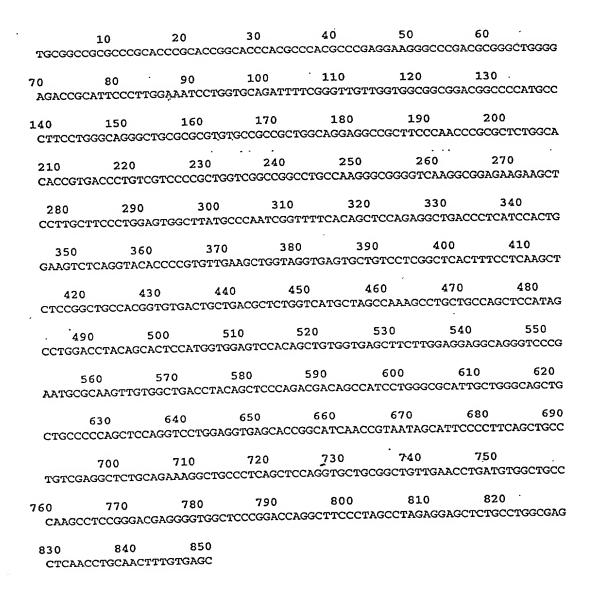
		20	30	40	50	60	70	<b>\$</b> 0	90	100	110	120	130
	COOCACTO	ACCCAAACC	CASCTOGASC	ATCTCATCTGACG	TGAGTTCAAC		210	220	ил <del>тотоост</del> а 230	сслосаллал 240	250	260	270
CASC	150 CCAOCCCT	160 GATATGTCCA	CCGLATCTCC	CYOCYLLLCYCYN CYOCYLLLCYCYN	.190 .TOCKACOOX	200 200	cscosocsoc	ATCACCOOC	AGACOGTOGC	CYLOCICCYC	recessore	corcessors	rycycycccocac
260 ATCC	290	300 TCCAGACCCC	310 ACAACCAACA	320 000CASCATAGAS	330 330	340 SACCACTCCATO	350 CTOCAGATCT	360 TCTCCTTCCT	370 2000CACCAAC	CYOCLOLOCC CYOCLOLOCC	390	400 MOTOTOCOCC	410 COCTOGTACAACC
420 1000	43 CCTOOGACO	0 44	0 45 GLOCACTATO	0 460 <del>00001</del> 000000	470 LAGACCATCA	480 ACCTOCACCOCO	490 CCCTCLLOGI	500 <sup>°</sup>	510 AGACTCTGCC	520 AGGACACCCC	530 CAACGTGTGT	540 CTCATOCTOGI	. 220 hydddinydiai
			_		410	670	610	640	650	660	670	680	690 CTCTCCCCTAAT
					75	760	770	780	790	800	#10	#20	830
							910	920	930			9.60	* 970.
YOU	VOCTY OCC.	TOCACACCAT	CCCCCCCCAC	TOCKCOCKCCTC	COCACCTCT.			106	. 107	0 300	0 10	. 110	ACCTCACCCTCAG
CCA	980	990 CCTCACCGAC	1000 TTCCCCCTCC	OOGLGATCOCCA	ACCTOCACTO	CCCCTCCCCTA	.cctglocktr	COCCACTOCO	XXXXXXXXXX	CCACCTOOK	ATCCCCTAC		TOCKOCKAOCTG
ccc	1120 TACCTCAA	1130 :::::::::::::::::::::::::::::::::::	1140 CCGAOCOCAT	2120 1120	L160 IGTOGAGTAC	1170 11 crosccussus	80 11 TOCACCAAA	190 12 TICALATOCOT	COCATATCOCC	AAATGCCCTT	TOOTATOOO		AGTOCCTOCCC
TGA	1260 ACTOCTTC	1270 UCCTCA4500	. 1280 ECTCASCCTO	1290 MGTCCTCCGAG	1300 NGCATCACCO	1310 I	.329 : AGATCOTOX	502CCYYCLOX F330 3	ETTTCACCTCC	1350 1 LAGACCCTGAU	IZEO :	1370 1: Processoriem	1390 1390
							1460	1470	1480	1490	1500	1510	1520 XAXXXII ATGTAA
							1600	1610	1620	1670	1640	1650	1660 CATTITOCTCACO
							17/0	1750	1760	1770	1780	1790	1800
						1.70	3890	1 8 9 0	1900	1910	1920	1930	1940
1810	cyccccc	20 183	CYCYCCLC.	CTCCCTAGACCA	OCKOCCKOCK	TOCATCATCAG		CTCTCCAGAC 2030	CTCCTCTCTAI 2040	2050	2060	2070	AATCCCACACCCA 2080
195	O 1 ACATICTT	960 15 CTCAACTCAA1	70 19 FACCATACCA	980 1990 CTTTCCATACCA	2000 AAATACTTTT	2010 CACCCCTTTT	2020 	TTACAOCAAA	CACCTOOGA	ACCACATOCA	2000	<b>VOCICICICYY</b>	TCACTATGACCTT
20	90 CAMCCAC	2100 :	2110 :	2120 213 CTTCCACCACTGA	0 214 ATCAGAGGGG	ycycieccon, 10 3120	2160 AGATTAGCTT	2170 CATGTCCATT	2180 ATAOCATTGA	2190 3000,000,000,000	2200 ATACCCATAC	2210 ACAGAAGCACC	2220 TTOOCATAGAGCA
									50 21	en 24.	70 24	80 349	
								een 9	590 2	600 2	610 2	670 26	30 2640
								2770	2210	2740	2750	2760 2	770 2780
				CACAGATOCCTCC	XTICTITICT(		2050	2060	7470	2880	2890	2900	.TT0000TTAAGTT
10	2790 LANGTOTT	ANTIGTOCAL CANTIGTOCAL	7810 YLLOCCYCCC	2820 TOTOTACCTCCTC	2830 CATCICION	erccererrire	ciccinan	TOCALAGEAG	ACTTCCACCT	CTTAAATTC	TOTTCACTC	<b>ACANTOCCAGA</b>	TGAATOGAAGAOG
2920 GA	2930 ACACACTG	2940 CATGACTTAG	2950 ACTCTOSTCC	2960 ACCAACCAGACC	2970 	2980 AATACTAAAATC	2990 ATTACAAGGT	3000 ATTTTA	1010 ULTOCATGUA	3020 ACTICAAATT	3030 ATCTTATTTO	3040 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ATATTCTAGCCTC
3060	301 ITOCATGA	0 308	O 309	O 3100 TCCATTOCTOST	3110 TTCACCAAA	3120 TICACTIGICIT	3130 TICCTAATA	3140 WCACATOOCC	3150 CTTTCCCAGA	3160 TTATTCTCTA	3170 .cccu.cccc	3180 EXCCTTTGTTAC	3190 COTTGAAATCCCTC
							2274	2240	3200	3300	3310	3320	3330 ATACTGTCGTCTTC
							3410	7/24	2420	3440	3/50	3460	3470 XXXXXXXXXXXXXXX
							166	3560	3570	3540	359	3600	3610
		CASSATCTAGE	concector	CACTTTALLACC	ATGALAGAAG			37/	10 171	0 377	10 37	30 374	ATTOTOCCTAATCC
			TCACCTOST		AATGAGCAGG	CACATOCAGAGI	WLCYYLOCC.	rGACCCCATC!	ACCTALACTOR	CTTCCAAAC	160 3	870 38	ACACTGATTOCCCA
00	3760 ACATACCG	3770 TCTTOCCAGTT	3760 FECTICITIES	TOCCACTOTOCT	CTICATOCAT	ACTOT TCTCCC	riccorross.	AATCTATGATC	OCAOCTTACTO	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	TCACCAGAT	TTTTOGAGACC	MACCAMAGTETC
ac	3900 TAXXXAT	3910 TTATCIGTTI	3920 FAAACATTOX	3930 	3940 TCTOCTAAAT	3950 S	ostrorior Torrorior	3970 1 1011011111	3980 S TAATTCTAAT	SSSO 4	CLOCOLOCIO 1000	4010 4 TATGAATCTAG	020 4030 AAAOCCTTAATTTA
	4040	€050 ATAAACCAATA											

FIG. 22B

mildle act

30 AAAPAPAPAPTPTPEEGPDAGWGDRIPLEILVQIFGLLVAADGPMPFLGRAARVCRRWQE 100 90 AASQPALWHTVTLSSPLVGRPAKGGVKAEKKLLASLEWLMPNRFSQLQRLTLIHWKSQVH 150 160 140 130 PVLKLVGECCPRLTFLKLSGCHGVTADALVMLAKACCQLHSLDLQHSMVESTAVVSFLEE 220 210 200 AGSRMRKLWLTYSSQTTAILGALLGSCCPQLQVLEVSTGINRNSIPLQLPVEALQKGCPQ 270 LQVLRLLNLMWLPKPPGRGVAPGPGFPSLEELCLASSTCNFVS

**FIG. 23A** 



**FIG. 23B** 

10		30			60							
QHCSQKDTAELLRGLSLWNHAEERQKFFKYSVDEKSDKEAEVSEHSTGITHLPPEVMLSI												
70	80	90	100	110	120							
FSYLNPQELCRCSQVSMKWSQLTKTGSLWKHLYPVHWARGDWYSGPATELDTEPDDEWVK												
120	140	150	160	170	180							
NRKDESRAFHI		. 150 EESAEESIAI										
NRKDESRAFHEWDEDADIDESEESAEESIAISIAQMEKRLLHGLIHNVLPYVGTSVKTLV												
190		210			240							
LAYSSAVSSKI	WRQILELCPN	LEHLDLŢQTD	ISDSAFDSWS	WLGCCQSLRH	LDLSGCEKI							
250	260	270	280	290	300							
	ALGILTSHQSG											
310	320				360							
EEIDNEHPWTKPVSSENFTSPYVWMLDAEDLADIEDTVEWRHRNVESLCVMETASNFSCS												
370	380	390	400	410	420							
370 380 390 400 410 420 TSGCFSKDIVGLRTSVCWQQHCASPAFAYCGHSFCCTGTALRTMSSLPESSAMCRKAART												
430		450			480							
RLPRGKDLIYFGSEKSDQETGRVLLFLSLSGCYQITDHGLRVLTLGGGLPYLEHLNLSGC												
. 490	500	510	520	530	540							
LTITGAGLQDLVSACPSLNDEYFYYCDNINGPHADTASGCQNLQCGFRACCRSGE*PLTS												
	550	520	E00	500								
550	• • • •	570 SCUNHPELSU		590 אנדצטעא זאקי	π.							
DLCLLHLAEQAFFHALYS*HISCVNHPFLSVTCFGPIXYNFRNLNYQXIVML												

FIG. 24A

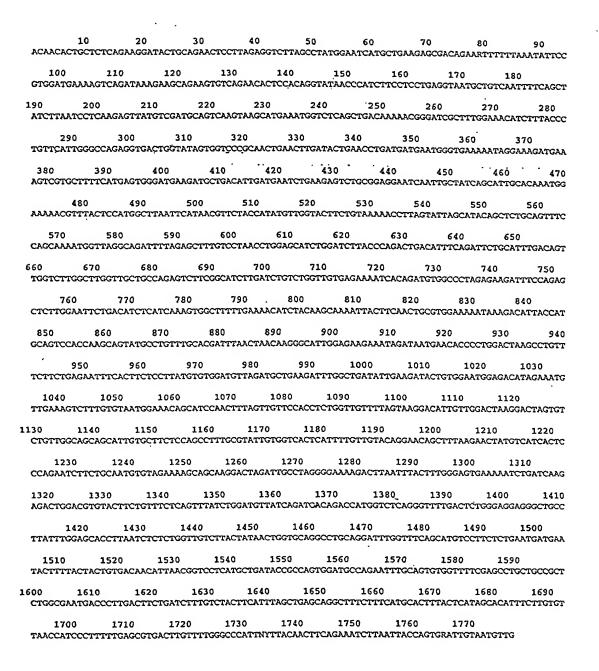
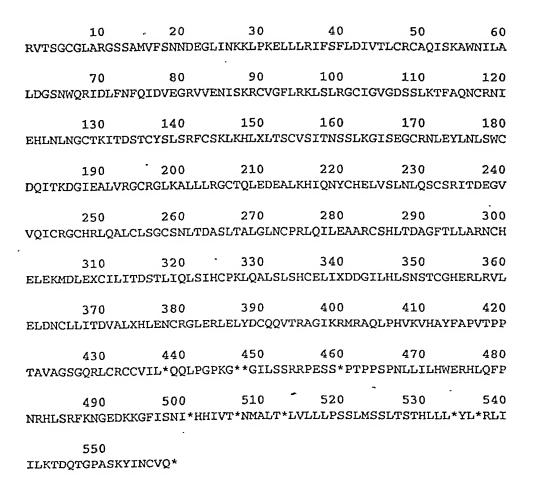


FIG. 24B



**FIG. 25A** 

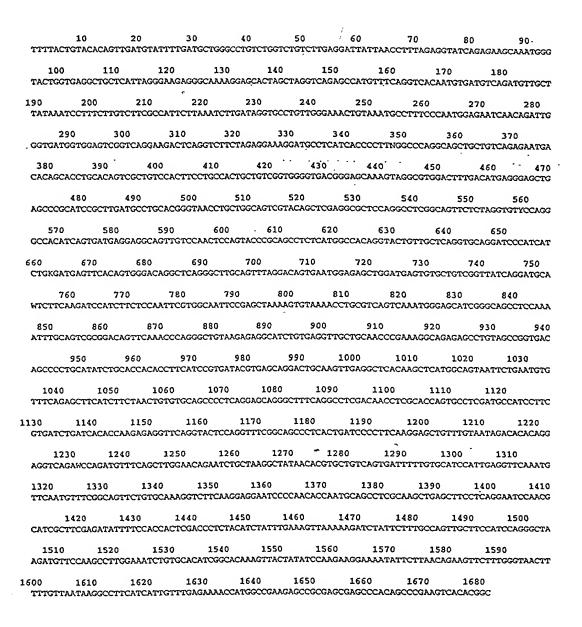
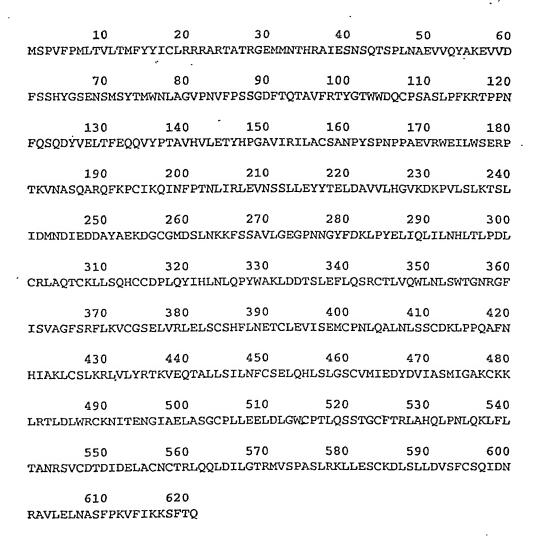


FIG. 25B



**FIG. 26A** 

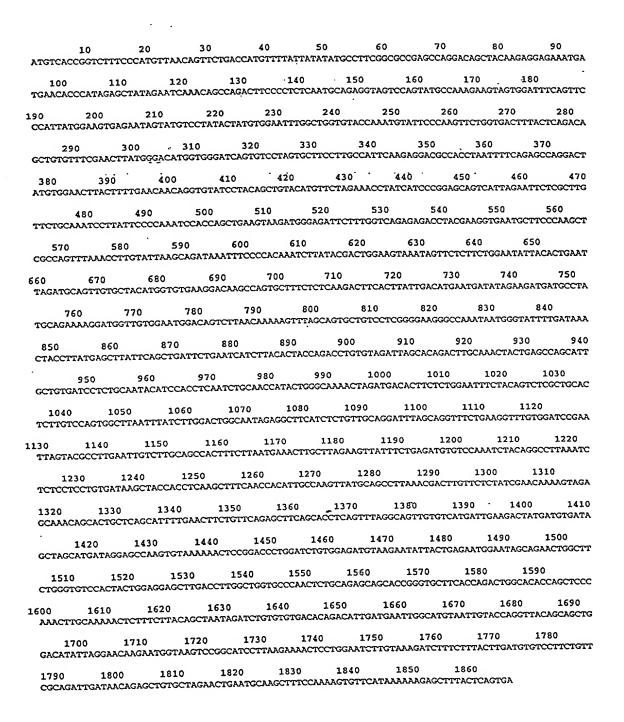


FIG. 26B

MQLVPDIEFKITYTRSPDGDGVGNSYIEDNDDDSKMADLLSYFQQQLTFQESVLKLCQPE LESSQIHISVLPMEVLMYIFRWVVSSDLDLRSLEQLSLVCRGFYICARDPEIWRLACLKV 130 . . . .140 WGRSCIKLVPYTSWREMFLERPRVRFDGVYISKTTYIRQGEQSLDGFYRAWHQVEYYRYI 210 . RFFPDGHVMMLTTPEEPQSIVPRLRTRNTRTDAILLGHYRLSQDTDNQTKVFAVITKKKE EKPLDYKYRYFRRVPVQEADQSFHVGLQLCSSGHQRFNKLIWIHHSCHITYKSTGETAVS AFEIDKMYTPLFFARVRSYTAFSERPL

**FIG. 27A** 

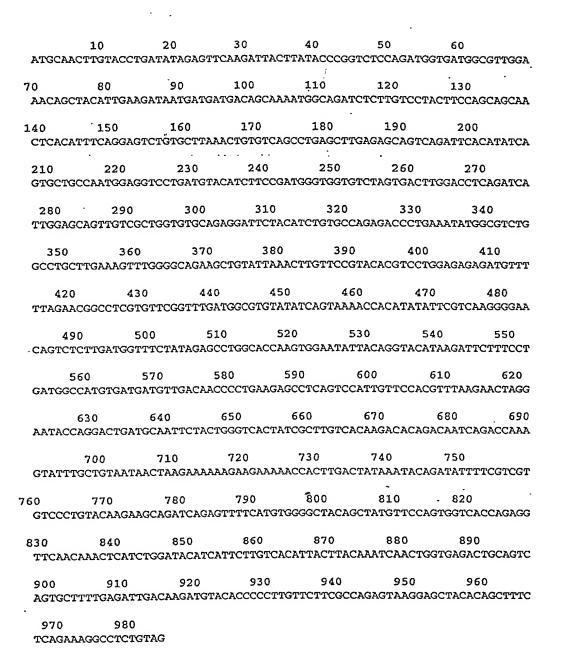


FIG. 27B

.10 20 30 40 50 60

AALDPDLENDDFFVRKTGAFHANPYVLRAFEDFRKFSEQDDSVERDIILQCREGELVLPD

70 80 90 100 110 120

LEKDDMIVRRIPAQKKEVPLSGAPDRYHPVPFPEFWTLPPEIQAKFLCVLERTCPSKEKS

130 140 150 160 170 180

NSCRILVPSYRQKKDDMLTRKIQSWKLGTTVPPISFTPGPCSEADLKRWEAIREASRLRH

190 200 210 220 230 240

KKRLMVERLFQKIYGENGSKSMSDVSAEDVQNLRQLRYEEMQKIKSQLKEQDQKWQDDLA

250

KWKDRRKSYTSDLQK

**FIG. 28A** 

m , , , lut su . . .

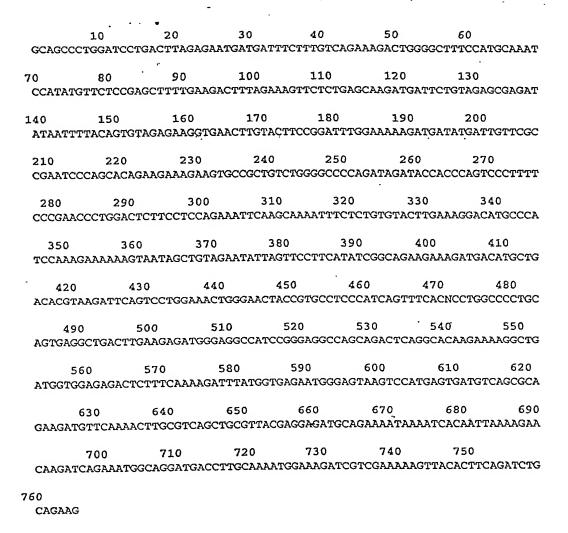
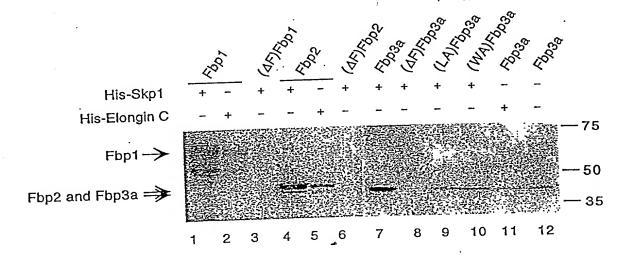


FIG. 28B



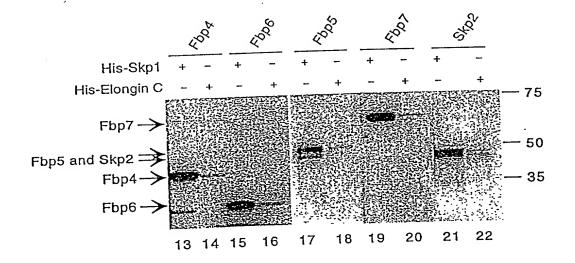


FIG. 29

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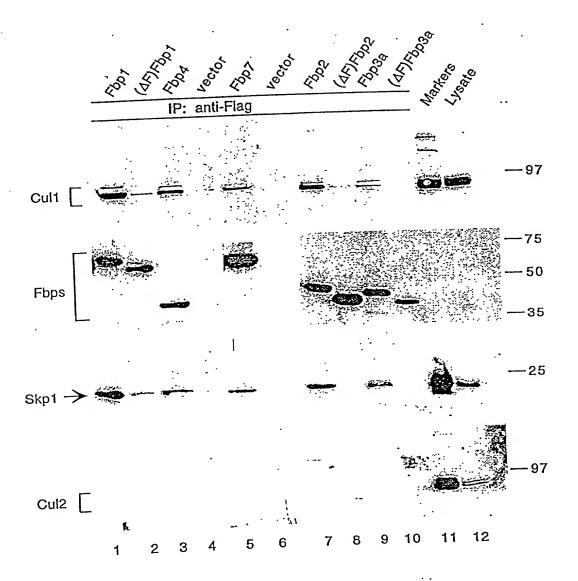


FIG. 30

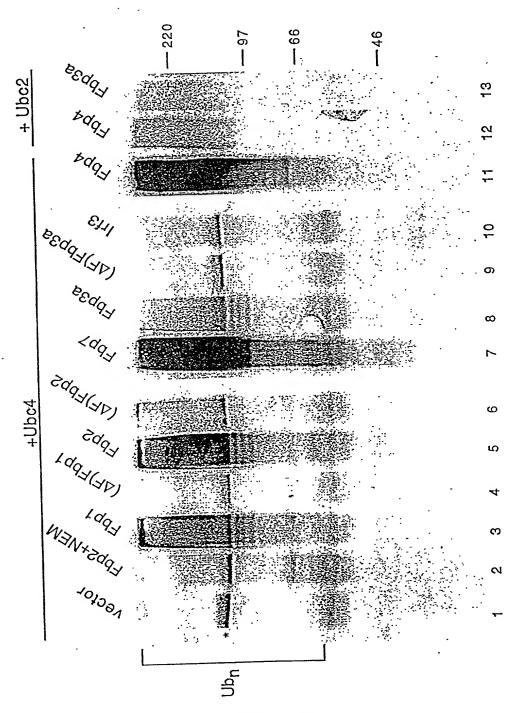


FIG. 31

5914-0**40** 

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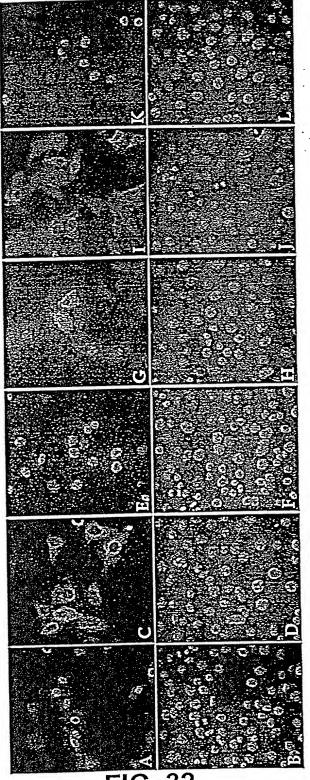


FIG. 32

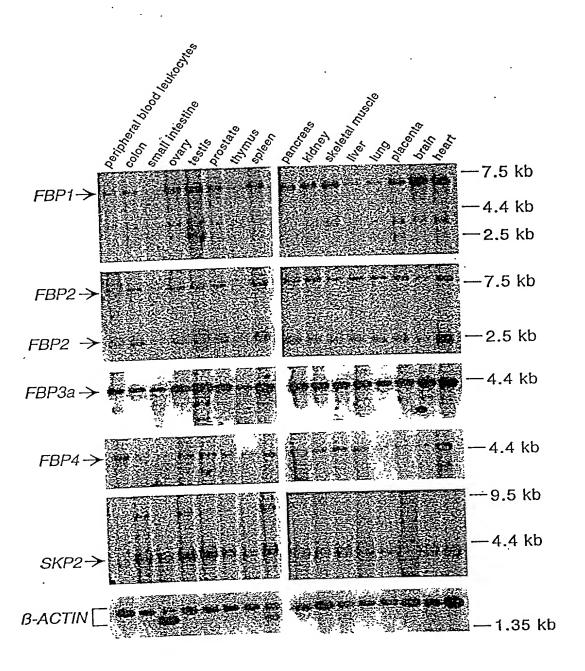


FIG. 33

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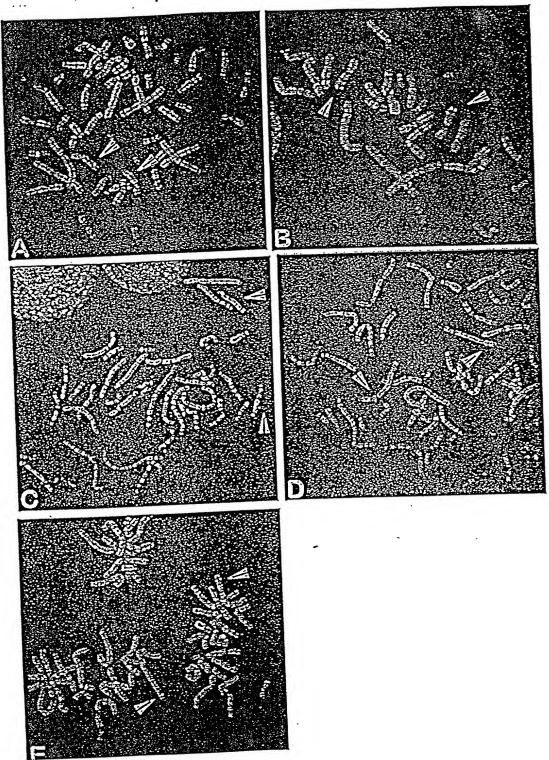


FIG. 34 A-E

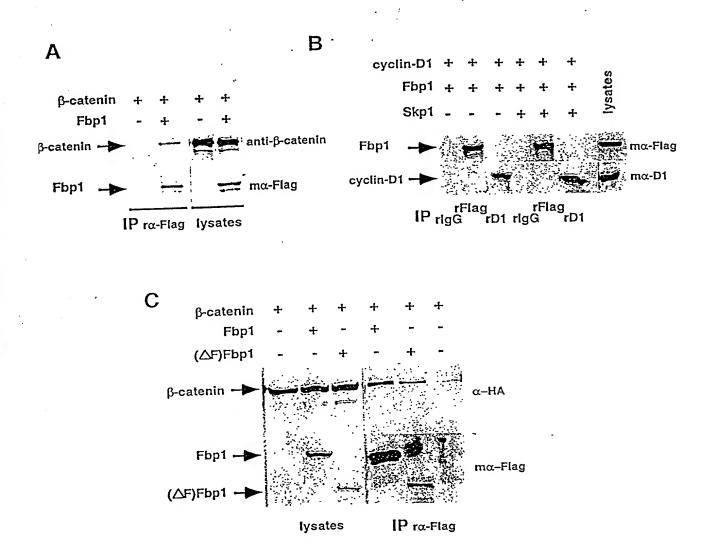


FIG. 35 A-C

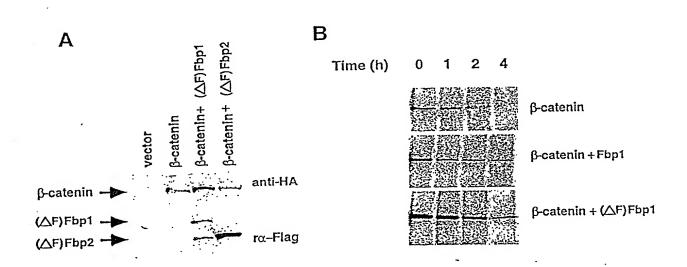
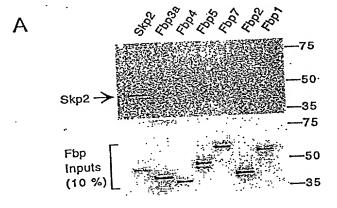
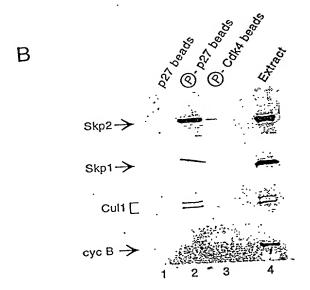


FIG. 36 A-B





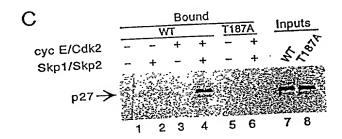


FIG. 37 A-C

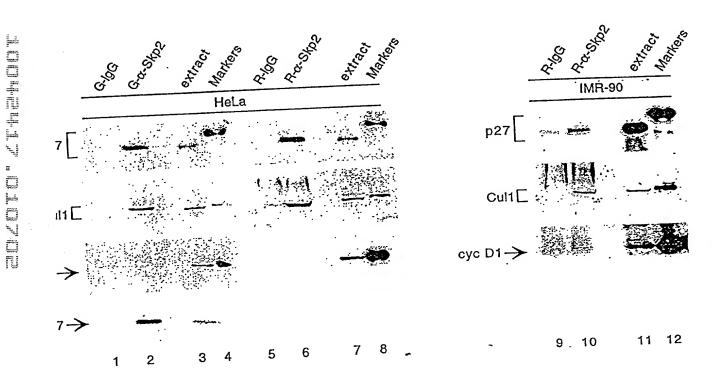
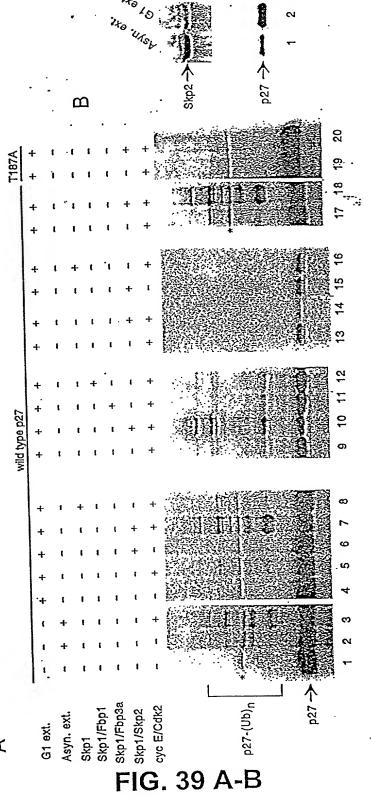


FIG. 38



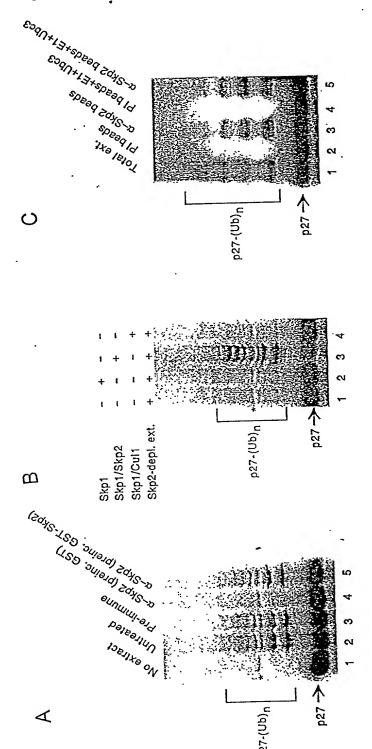


FIG. 40 A-C

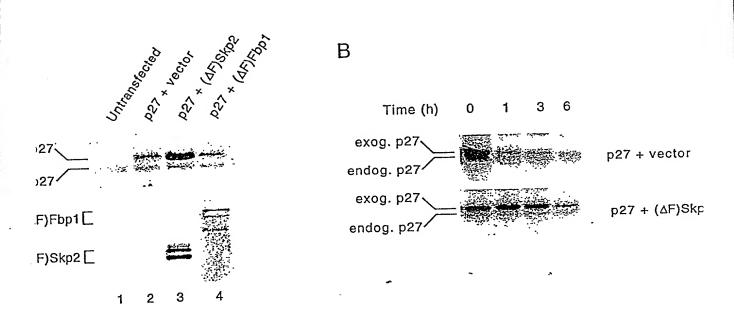


FIG. 41 A-B

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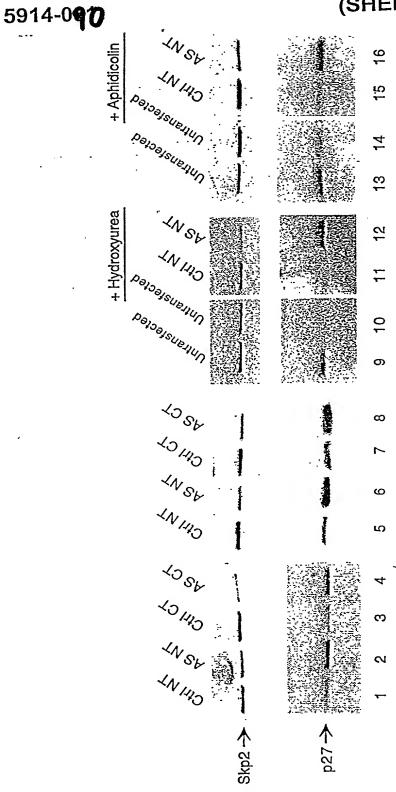


FIG. 42

5914-090 (SHEET 69 OF 80)

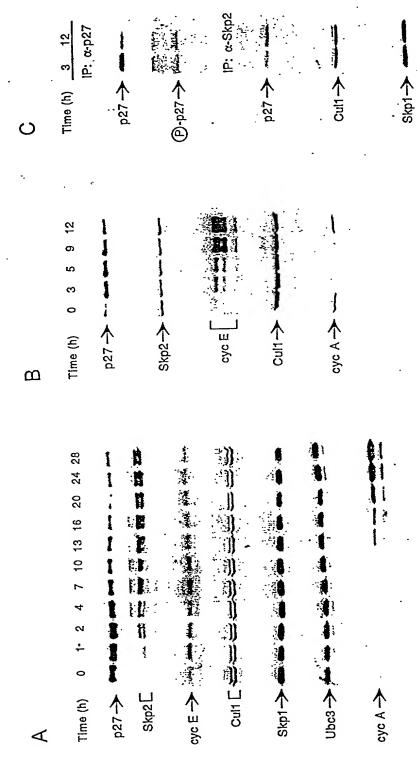


FIG. 43 A-C

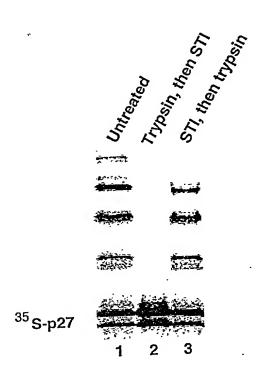
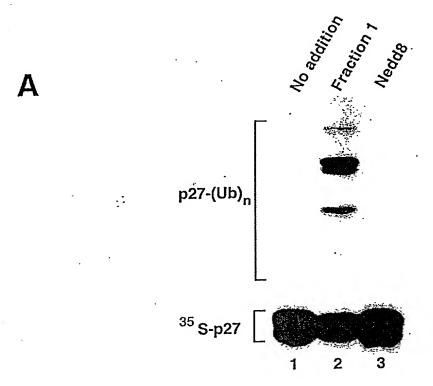


FIG. 44



B Cul-1-Nedd8

C Cul-1 - + - - + - - + - Cul-1-Nedd8 - - + - - + - - + Fraction 1 + + + - - - -

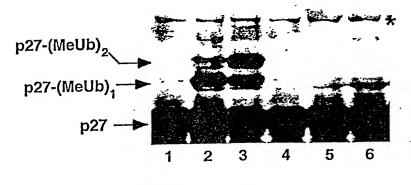
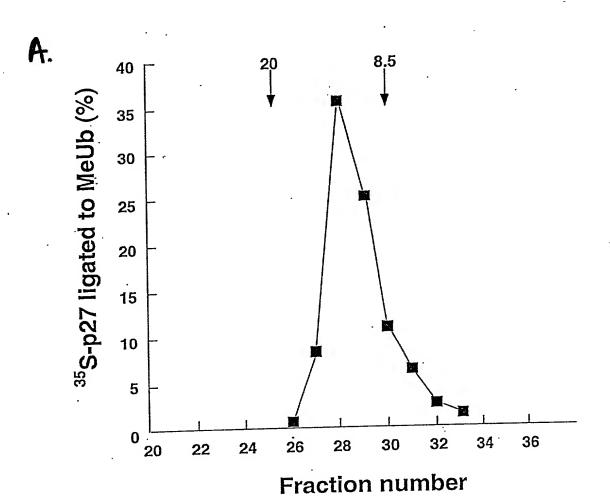


FIG. 45



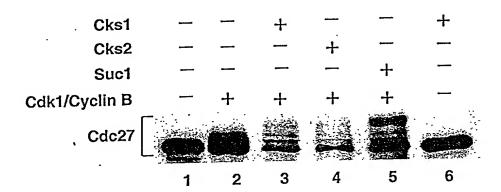
 8.

 -21

 -14

 Fraction No. 25 26 27 28 29 30 31 32 33

 FIG. 46



F16. 47

FIG. 48

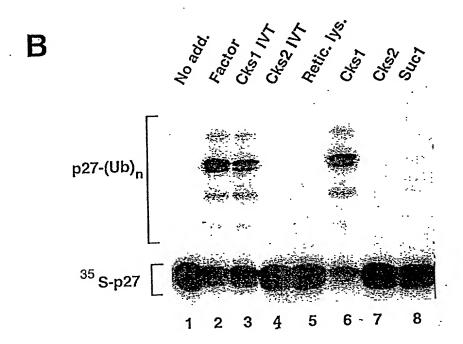
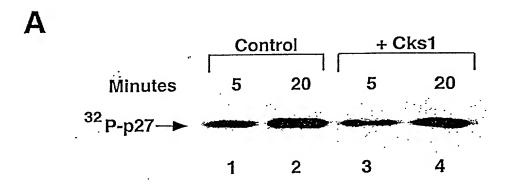
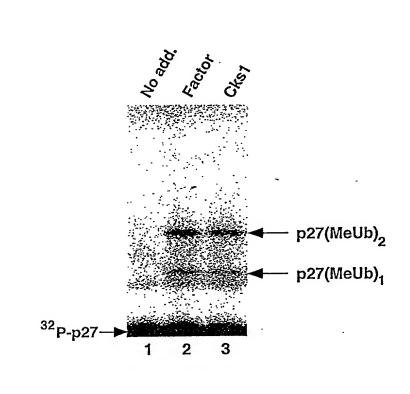


FIG. 48

B

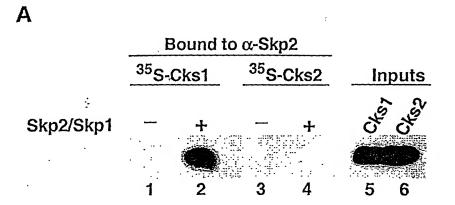




F16.49

4			•					
:	WT			T18	37A	Inputs		
Skp2/Skp1	-	+	+	+	+		A	
Cks1		-	+	_	+	to the second	NA	
<sup>35</sup> S-p27 — <b>▶</b>								
	1	2	3	4	<b>5</b>	6	<b>起</b> 7	

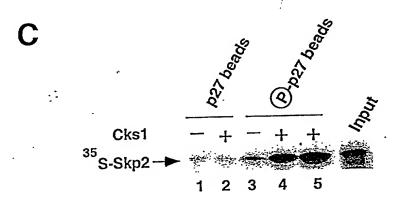
FIG. 49

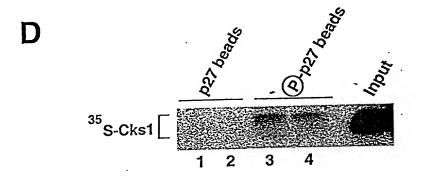


35S-Cks1 bound to Ni-NTA

Skp2/his<sub>6</sub>-Skp1 - + - His<sub>6</sub>-Skp1 - + 4

FIG. 5D





F16.50

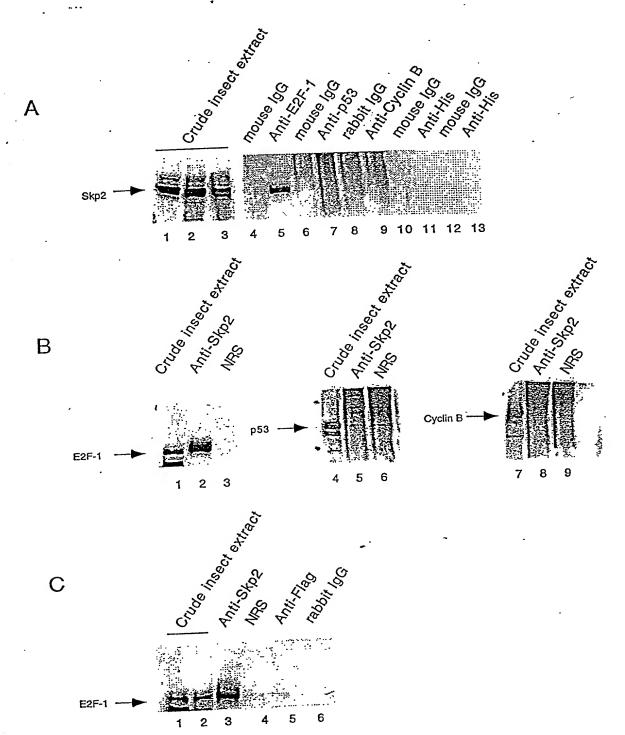


FIG. 51 A-C